Page last updated July 10, 2022
Copywrite: DOE, Carleton University, Ottawa, Ontario

#  Robert C. Gauthier, Ph.D. (Halifax), P. Eng.

#### Associate Professor

Email: robertgauthier@cunet.carleton.ca

Phone: +1 613 520-2600 ext. 5808

Office: 4146 Mackenzie

# [Fourth year project information](file:///%5C%5Cugradfs.doe.carleton.ca%5Cgauthier%5Cpublic_html%5CElectronic%20Pinball.htm)

# Research Activities (Present)

### Computational Electromagnetics

###  Fourier Bessel mode solver

###  Cylindrical space resonant structures

### Fourier Bessel Legendre mode solver

###  Spherical space resonant structures

### Fourier3 mode solver

### Cubic-Cartesian space resonant structures

###

### Application areas

### Photonic crystals

### Photonic quasi-crystals

### Optical sensing

### Bio-photonic structures

### Use the link to access the directories for the [Downloadable Resonator Software](file:///%5C%5Cugradfs.doe.carleton.ca%5Cgauthier%5Cpublic_html%5CFFF%20FFB%20FBL%20Software)

### ELEC 3105

# Research Activities (Past)

### Laser Trapping and optical tweezers

### Optical fiber sensors